Abstracts

Computation of Equivalent Circuits of CPW Discontinuities Using Quasi-Static Spectral Domain Method (Short Papers)

An efficient and simple computer technique based on the quasistatic approximation for the determination of the component values of the equivalent circuits of a broad-class of coplanar waveguide (CPW) discontinuities is introduced. The technique does not depend on the extraction of the component values from the scattering parameters. It uses the spectral domain formulation in conjunction with the method of moments. The concepts behind the method are illustrated using a complex example, the CPW T-junction. A few T-junctions are treated with the technique. Both the measurements and the full-wave electromagnetic simulation support the accuracy of the results.

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